



2839

Patent

Docket No.: 276440-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Eldridge et al.

Application No.: 09/710,539

Filing Date: November 9, 2000

For: Lithographic Type Microelectronic Spring
Structures With Improved Contours

Examiner: S. Nguyen

Group Art Unit: 2839

#10/205
Shew
8/14/03**INFORMATION DISCLOSURE STATEMENT (IDS)**Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on an attached Form PTO/SB/08A is information known to applicant(s). The Examiner is requested to initial and return the attached Form PTO/SB/08A in accordance with MPEP §609. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

☐ This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

☐ (1) It is being filed within 3 months of the application filing date (other than the filing date of a continued prosecution application under §1.53(d))

-- OR --

☐ (2) It is being filed within 3 months of entry of a national stage

-- OR --

☐ (3) It is being filed before the mail date of the first Office Action on the merits

-- OR --

☐ (4) It is being filed before the mail date of the first Office Action after the filing of a request for continued examination under §1.114

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☒ 37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; (3) the mailing date of a first Office action on the merits, or (4) the mailing date of a first Office Action after the filing of a request for continued examination under §1.114, but before the mailing date of the earlier of a final office action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, then:

☐ a statement as specified in §1.97(e) is provided below; **or**

☒ a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

☐ 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, but before payment of the issue fee, then:

A. a statement as specified in §1.97(e) is provided below; **and**

B. a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

☒ *Fee Authorization.* Applicants authorize the Director to charge the above fee of \$180.00 to Deposit Account No. 50-0285 (order no. P108-US). Although Applicants believe that no other fee is due in connection with the filing of this IDS, the Director is authorized to charge any fees due, or credit any overpayment associated, with this IDS to Deposit Account No. 50-0285 (order no. P108-US).

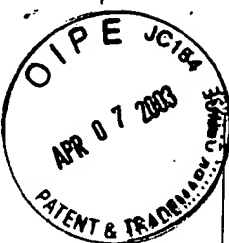
Respectfully submitted,

Date: April 2, 2003

By: 

N. Kenneth Burraston
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Legal Department
2140 Research Drive
Livermore, CA 94550
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Modified Form PTO/SB/08A

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete If Known

Sheet	1	of	3	Application Number	09/710,539
				Filing Date	November 9, 2000
				First Named Inventor	Eldridge et al.
				Group Art Unit	2839
				Examiner Name	S. Nguyen
				Attorney Docket No.	276440-3

U.S. PATENT DOCUMENTS

Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code ²			
	1	H842		Ochs	11/6/1990	
	2	3519890		Ashby	7/7/1970	
	3	3842189		Southgate	10/15/1974	
	4	4615573		White et al.	10/7/1986	
	5	4893172		Matsumoto et al.	1/9/1990	
	6	5286208		Matsuoka	2/15/1994	
	7	5513430		Yanof et al.	5/7/1996	
	8	5534784		Lum et al.	7/9/1996	
	9	5555422		Nakano	9/10/1996	
	10	5576630		Fujita	11/19/1996	
	11	5599194		Ozawa et al.	2/4/1997	
	12	5666190		Quate et al.	9/9/1997	
	13	5701085		Malladi et al.	12/23/1997	
	14	5821763		Beaman et al.	10/13/1998	
	15	5829128		Eldridge et al.	11/3/1998	
	16	5914614		Beaman et al.	6/22/1999	
	17	5974662		Eldridge et al.	11/2/1999	
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	19	6016061		Mizuta	1/18/2000	
	20	6031282		Jones et al.	2/29/2000	

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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				Group Art Unit	2839
				Examiner Name	S. Nguyen
Sheet	2	of	3	Attorney Docket No.	276440-3

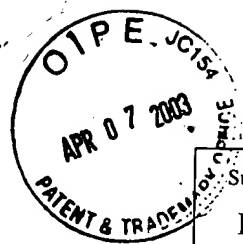
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code ²			
	21	6059982		Palagonia et al.	5/9/2000	
	22	6064213		Khandros et al.	5/16/2000	
	23	6072190		Watanabe et al.	6/6/2000	
	24	6183267	B1	Marcus et al.	2/6/2001	
	25	6184053	B1	Eldridge et al.	2/6/2001	
	26	6184576	B1	Jones et al.	2/6/2001	
	27	6214631	B1	Burrows et al.	4/10/2001	
	28	6255126	B1	Mathieu et al.	7/3/2001	
	29	6255727	B1	Khoury	7/3/2001	
	30	6289583	B1	Belmont et al.	9/18/2001	
	31	6307392	B1	Soejima et al.	10/23/2001	
	32	6344752	B1	Hagihara et al.	2/5/2002	
	33	6359455	B1	Takekoshi	3/19/2002	
	34	6452407	B2	Khoury et al.	9/17/2002	

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		Office ³	Number ⁴	Kind Code ⁵		
	35	EP	632281		Pedder	1/4/1995
	36	JP	58-191453		Kazuo	11/8/1983
	37	JP	05-18741		Kawase et al.	1/26/1993
	38	JP	05-198716		Osawa	8/6/1993
	39	JP	06-267408		Todokoro et al.	9/22/1994
	40	JP	07-21968		Watanabe et al.	1/24/1995
	41	JP	08-306708		Harada	11/22/1996
	42	WO	91/12706		Leedy	8/22/1991
	43	WO	96/16440		Khandros et al.	5/30/1996
	44	WO	98/21597		Charmant et al.	5/22/1998
	45	WO	00/33096		Eldridge et al.	6/8/2000
	46	WO	01/9952		Eldridge et al.	2/8/2001

OTHER PRIOR ART – NONPATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
	47	"A New Wafer Probe Interface Technology Using Compliant Microsprings, A Joint Study by Teradyne, Inc. and FormFactor, Inc.," Teradyne Formfactor White Paper (Teradyne, Inc. and FormFactor, Inc., January 30, 1998), pp. 1-18	
	48	NOVITSKY et al., "FormFactor Introduces An Integrated Process For Wafer-Level Packaging, Burn-in Testing, And Module Level Assembly" (FormFactor, Inc., March 1999), 6 pages	
	49	KHANDROS et al., "New Methods For Reducing Costs In Semiconductor Back-End," (FormFactor, Inc., January 30, 1998), 9 pages	

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